

## Utah Weekly Pertussis Update

2015 data, through MMWR week ending July 18, 2015 (MMWR week 28)

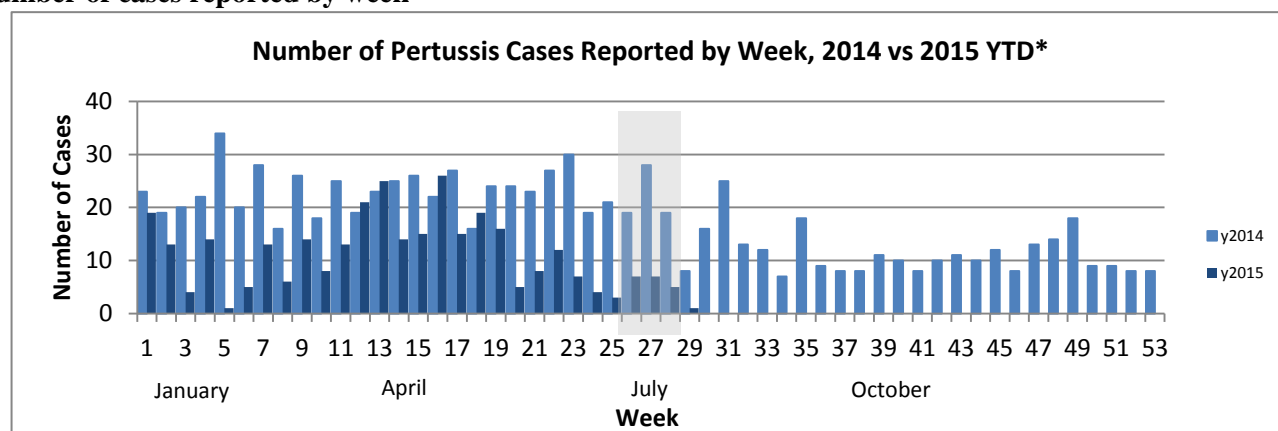
*Data presented in this report are based on current data available and will be subject to change weekly.*

### Data Summary

Total number of cases reported, 2015 year-to-date (YTD)	320	Utah Incidence rate, 2015 year-to-date (YTD) per 100,000 person-years	20.2
Total number of cases reported 2014	926	Utah Incidence rate, 2014 per 100,000 person-years	31.9
Number of cases reported in past week	19	National Incidence rate, 2013 per 100,000 person-years (As of 11/12/2014) *Provisional	8.9
Total number of cases reported, through same time period 2014	643	2015 Hospitalizations	8
Age groups with the highest rates	<1 year	2015 Cases in infants <1 year	29
	1-4 year		

\*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

### Number of cases reported by week



\*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

### 2015 Year-to-Date Incidence Rates, By Age

Age (years)	2015 Cases	2013 population	Rate*, **
<1	29	50,052	106.3
1-4	54	203,815	48.6
5-14	87	505,598	31.6
15-24	65	469,436	25.4
25-34	26	440,736	10.8
35-44	28	372,699	13.8
45-54	7	305,312	4.2
55-64	16	269,589	10.9
65+	8	283,635	5.2
Total	320	2,900,872	20.2

\* Rate is calculated per 100,000 person years.

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

\*\*2013 population estimate update as of 11/4/2014 rates may vary compared to previous reports.

### School Age Incidence Rates, 2015 Year-to-Date

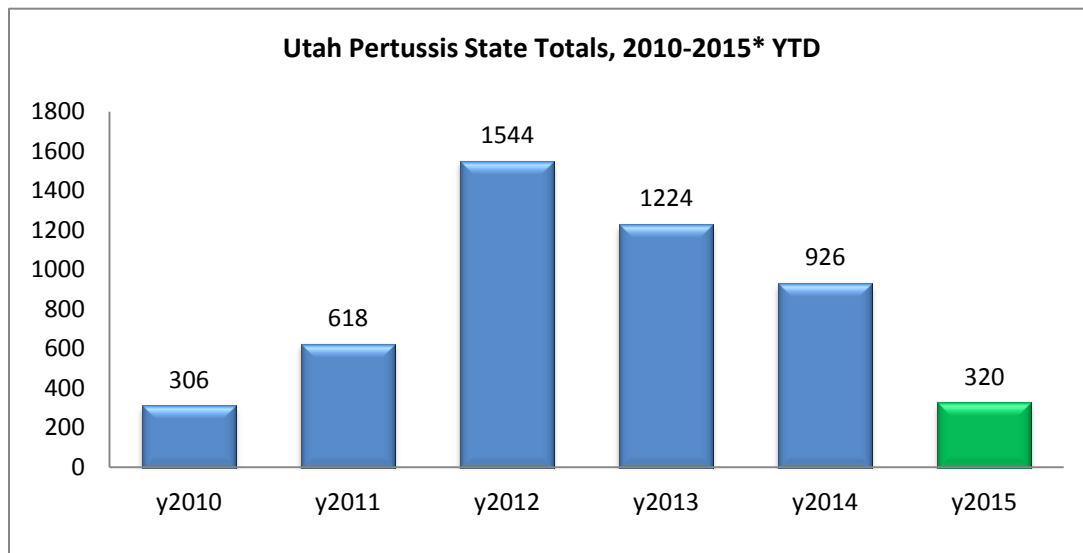
Grade	Age (years)	2015 Cases	2013 Population	Rate*
Preschool	3-4	130	103,602	230.2
Kindergarten	5	9	53,177	31.0
1	6	9	52,869	31.2
2	7	6	52,063	21.1
3	8	15	51,809	53.1
4	9	8	51,080	28.7
5	10	8	50,567	29.0
6	11	9	48,961	33.7
7	12	6	49,008	22.5
8	13	8	48,884	30.0
9	14	9	47,180	35.0
10	15	18	46,321	71.3
11	16	17	45,914	67.9
12	17	16	44,889	65.4

\* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

### Utah Case Counts of Pertussis, 2008-2014



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

\* 2015 data includes pertussis cases reported year to date. 2010-2014 data reflects cases reported during the entire calendar year for each year.

## Incidence of pertussis by Local Health Department, 2015 YTD

Local Health Department	2015 Cases	Rate*
Bear River	1	1.1
Central Utah	9	21.6
Davis County	36	20.5
Salt Lake Valley	79	13.4
San Juan County	12	147.0
Southeast Utah	2	8.9
Southwest Utah	7	6.0
Summit County	40	190.6
Tooele County	2	6.0
TriCounty	1	3.2
Utah County	51	16.9
Wasatch County	6	41.6
Weber-Morgan	40	29.5

\* Rate is calculated per 100,000 person-years using 2013 Utah population estimates

